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LAW OFFICES  
DENNISON, SCHEINER, SCHULTZ & WAKEMAN  
612 CRYSTAL SQUARE 4  
1745 JEFFERSON DAVIS HIGHWAY  
ARLINGTON, VIRGINIA 22202-3417

703 412-1155

## APPENDIX

### IN THE CLAIMS:

Page 23, above line 1: [CLAIMS] WHAT IS CLAIMED IS:

3. (Amended) Process according to [one or the other of claims 1 and 2] claim 1, wherein one incorporates into said mixture, as ACM, and typically at a content comprised between 0.1 and 0.5% by weight of mixture, a volatile oxide capable of substituting for  $\text{Fe}_2\text{O}_3$  or A, during said calcination, typically  $\text{Bi}_2\text{O}_3$  or  $\text{V}_2\text{O}_5$ , the incorporation of said volatile oxide being compensated, in the case of excess charge, by another addition of a bivalent metal substituting for  $\text{Fe}^{3+}$  to ensure the valency balance.

4. (Amended) Process according to [anyone of claims 1 to 3] claim 1 wherein said mixture is calcinated:

-either in two stages: at a temperature comprised between  $1225^\circ\text{C}$  and  $1275^\circ\text{C}$  for less than 5 minutes, then at a temperature comprised between  $1100^\circ\text{C}$  and  $1150^\circ\text{C}$  for at least 30 minutes,

-or in a single stage at a temperature comprised between  $1200^\circ\text{C}$  and  $1300^\circ\text{C}$ , for a time comprised between 30 and 90 minutes.

5. (Amended) Process according to [anyone of claims 1 to 4] claim 1 wherein said grinding is constituted of a dry grinding or comprises a humid phase grinding, the dry or humid

grinding being carried out in the presence of metallic or ceramic grinding elements, typically bars or balls loaded with or constituted of  $ZrO_2$  or tungsten carbide WC, the low contents of Zr or W, typically between 0.05 and 0.5% by weight of said mixture, transferred by wear and rubbing of said bars or balls to said mixture, or added to said mixture, acting under finely dispersed form as ACM agent.

6. (Amended) Process according to [anyone of claims 1 to 4] claim 1 wherein one provides an iron oxide  $Fe_2O_3$  with an average particle size comprised between 0.25 and 1  $\mu m$  and in which one replaces said grinding of stage a) under 2), by a dry mixture or a dispersion in humid phase.

7. (Amended) Process according to [anyone of claims 1 to 6] claim 1 wherein one furthermore incorporates into said mixture a particle size control agent, abbreviated as ACTP, typically silica, calcium oxide, a derivative of silica, or a combination of silica and calcium oxide, typically  $CaSiO_3$ , with a content in equivalent silica comprised between 0.1 and 1% by weight of said mixture.

8. (Amended) Process according to [anyone of claims 1 to 7] claim 1 wherein the ratio n is equal to  $6 \pm 0.1$ .

9. (Amended) Process according to [anyone of claims 1 to 7] claim 1 wherein the ratio n is chosen equal to  $5.9 \pm 0.1$ .

10. (Amended) Process according to [anyone of claims 1 to

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7] claim 1 wherein the ratio  $n$  is chosen equal to  $5.85 \pm 0.15$ .

11. (Amended) Process according to [anyone of claims 1 to 10] claim 1 wherein one incorporates into said mixture substitution trivalent products B for A, chosen among Bi, La and rare earths, typically under the form of oxides, and bivalent products C for  $\text{Fe}^{3+}$  substitution, chosen among Ni, Co, Mg, Cd, Cu, Zn, in such a way as to balance the valencies, with a content chosen to form ferrites of formula  $\text{A}_{1-x}\text{B}_x\text{C}_x\text{Fe}_{12-x}\text{O}_{19}$ , with  $x$  ranging between 0.05 and 0.45.

12. (Amended) Hexaferrite cake having an apparent density lower than 3 and an average particle size comprised between 0.25 and 1  $\mu\text{m}$ , obtained by the process according to [anyone of claims 1 to 11] claim 1, in which said dispersion is suppressed replacing said stage c) of grinding.